

**ROCKY FLATS PLANT**  
**NEPA DIVISION, PLANT REVIEW**  
**CATEGORICAL EXCLUSION WORKSHEET**

1. Date: 10/1/91
2. Activity/Project Name: IAG Site Characterization Activities in Floodplains/Wetlands for OUs 1, 2, 5 and 6 and the Geologic Characterization Program
3. Authorization or EJO:
5. NEPA Division Reviewer: Bill Moore
6. Categorical Exclusion Proposed:

"Site characterization and environmental monitoring, including siting, construction or operation of characterization and monitoring devices, under CERCLA and RCRA, if the activities would not . . . adversely affect environmentally sensitive areas . . ."

NOTE: EC 59-91, ("IAG Site Characterization Activities") was reviewed by NCC on May 22, 1991. That project was recommended for a CX under the same exclusion proposed here. The current activities are a sub-set of the activities included in the earlier EC. In reviewing the proposed CX, DOE HQ determined (in RFO/CX-017-91, copy attached) that the CX would only apply to site characterization activities outside floodplains and wetlands. HQ directed that another proposed CX be prepared for the work in floodplains, describing what effects, if any, such work would have on the floodplain/wetlands so it could be determined if a CX were applicable to the floodplain/wetland work. The present document is that second proposed CX

Would the proposed action:

7. Adversely affect federally-listed endangered, threatened, or proposed candidate species, or state-listed endangered or threatened species or their habitat?  
No.
8. Adversely affect floodplains or wetlands?  
No
9. Threaten public health or safety?  
No
10. Have possible effects on the environment which are likely to be highly controversial?  
No

**ADMIN RECORD**

A-DU01-000275

11. Have possible effects on the environment which are highly uncertain or involve unique or unknown risks?

No

12. Establish a precedent for future actions that will have significant effects, or represent a decision in principle about a future consideration?

No

13. Be substantially related to other actions that have individually insignificant but cumulatively significant impacts?

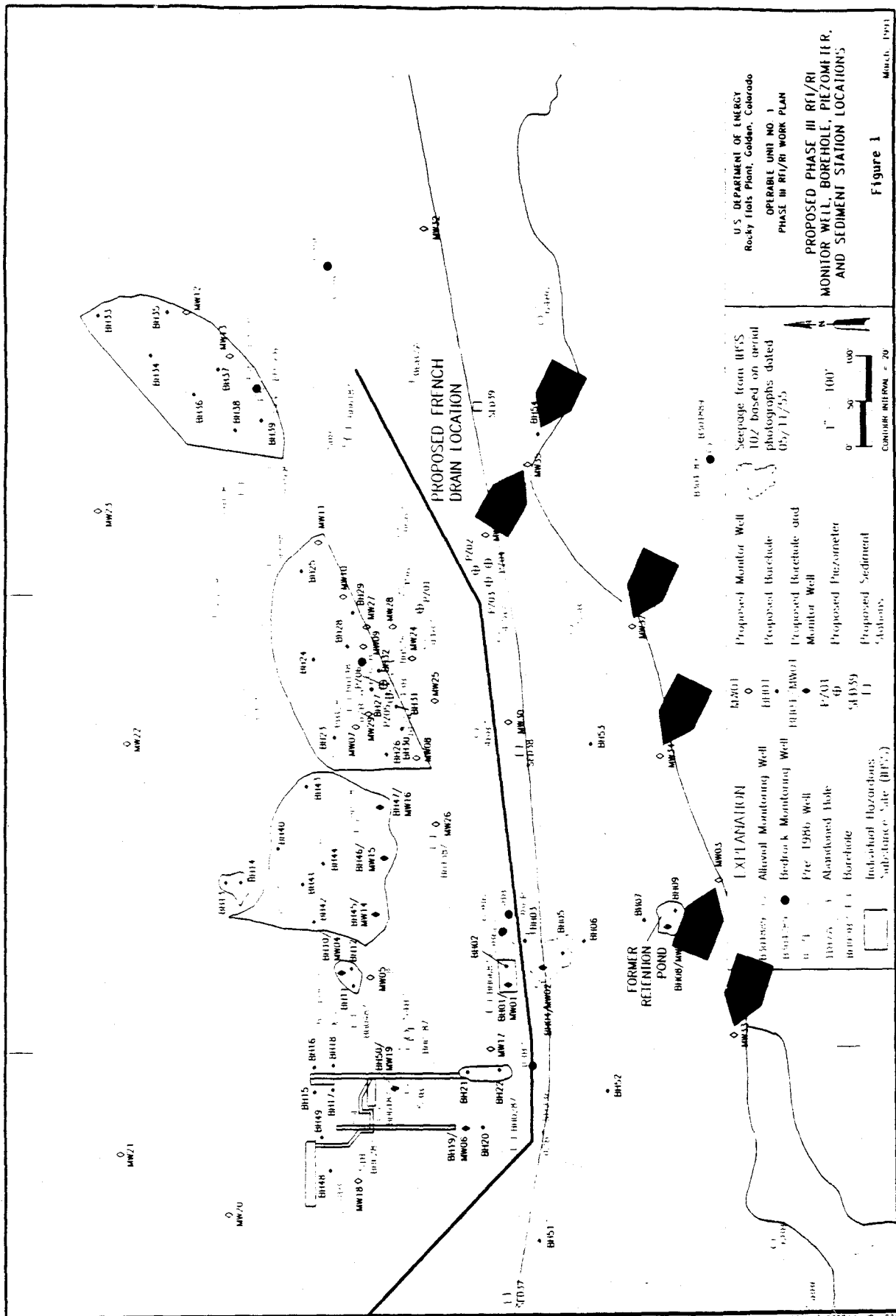
No

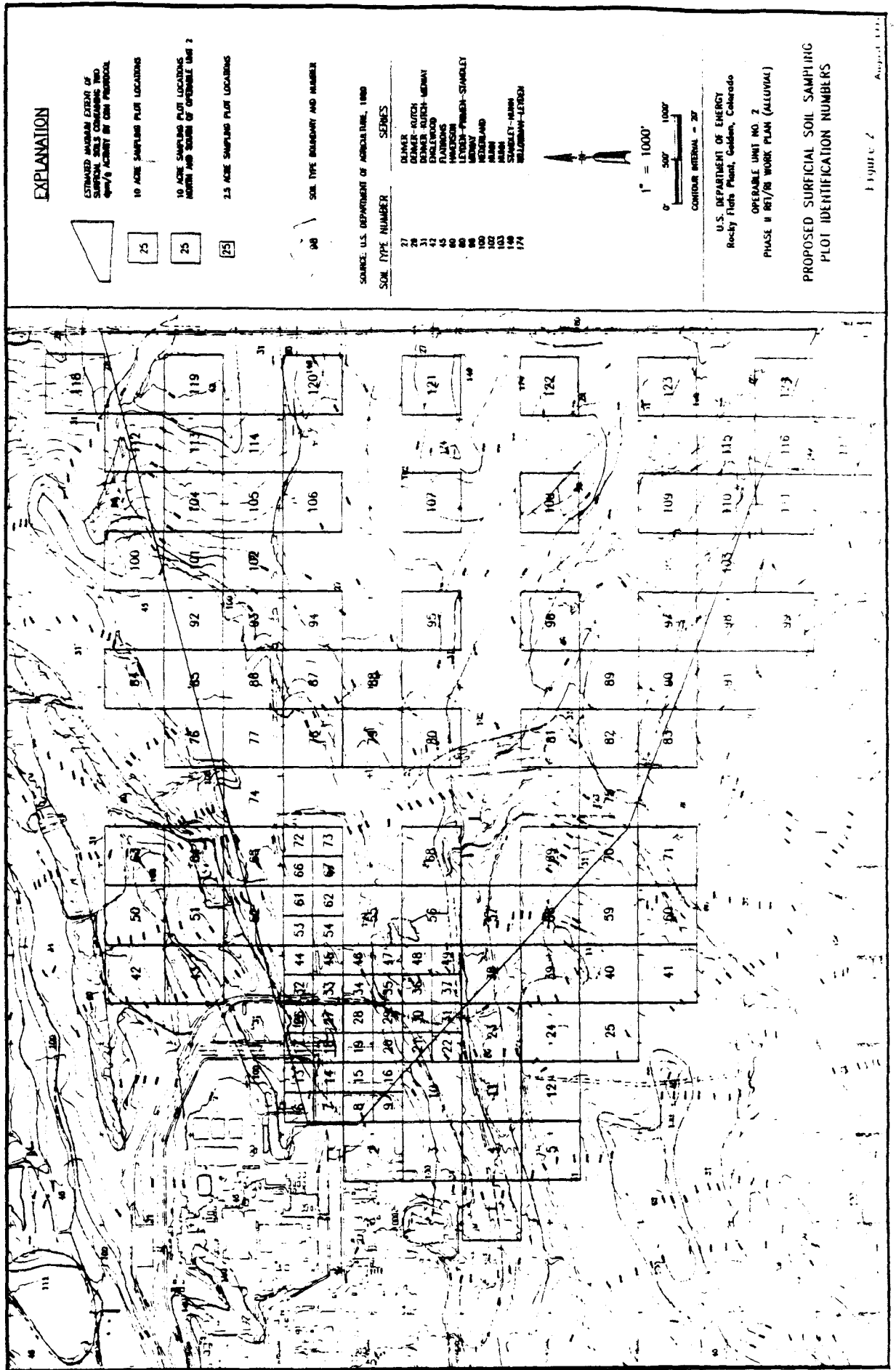
14. Adversely effect federal, state, or locally designated natural areas, prime agricultural land, special water sources, or historic, archeological, or architectural sites?

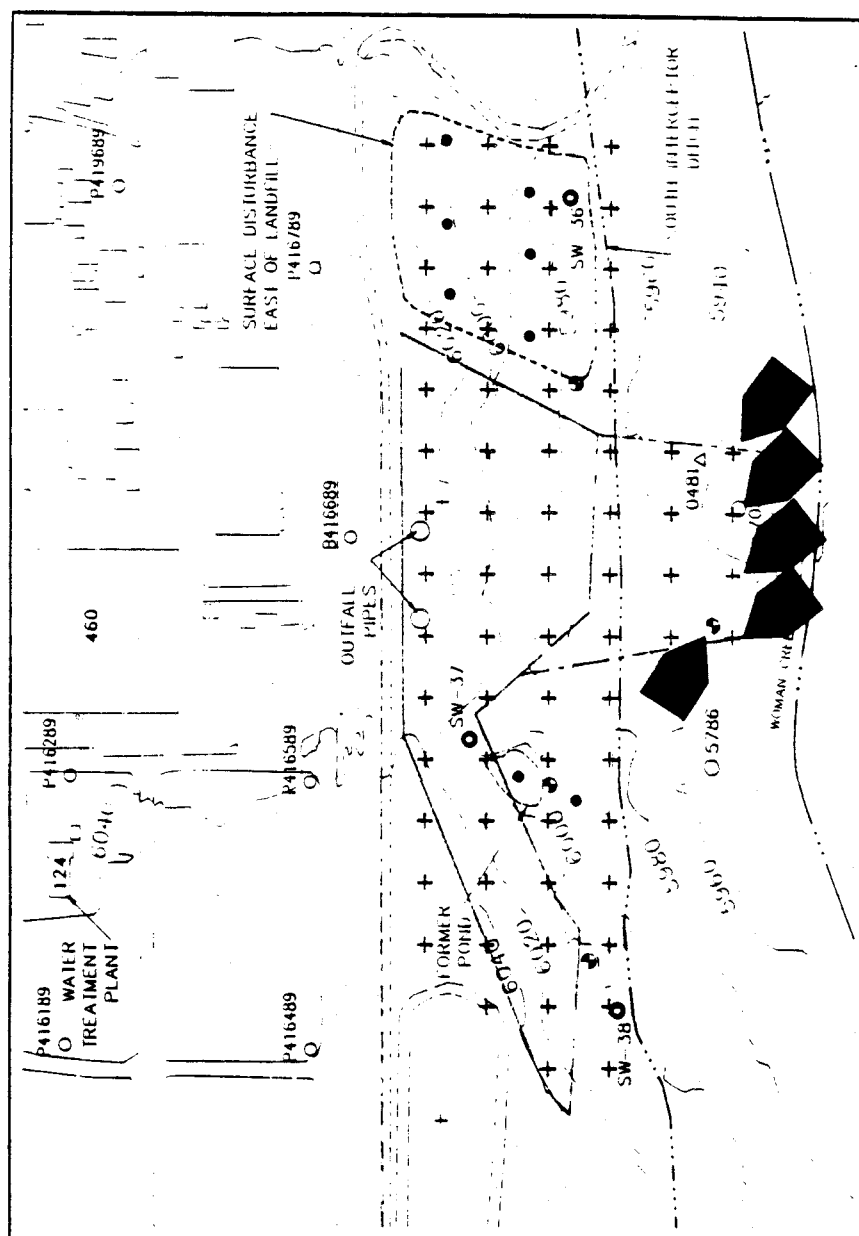
No

15. Other comments.

Of the various aspects of the project,drilling is the most disruptive. Drilling will take place in, but have no adverse effects on, the 100-year floodplain. It is possible that some drilling may also take place in wetlands but the activity is of such a nature as to cause no adverse effects to wetlands.







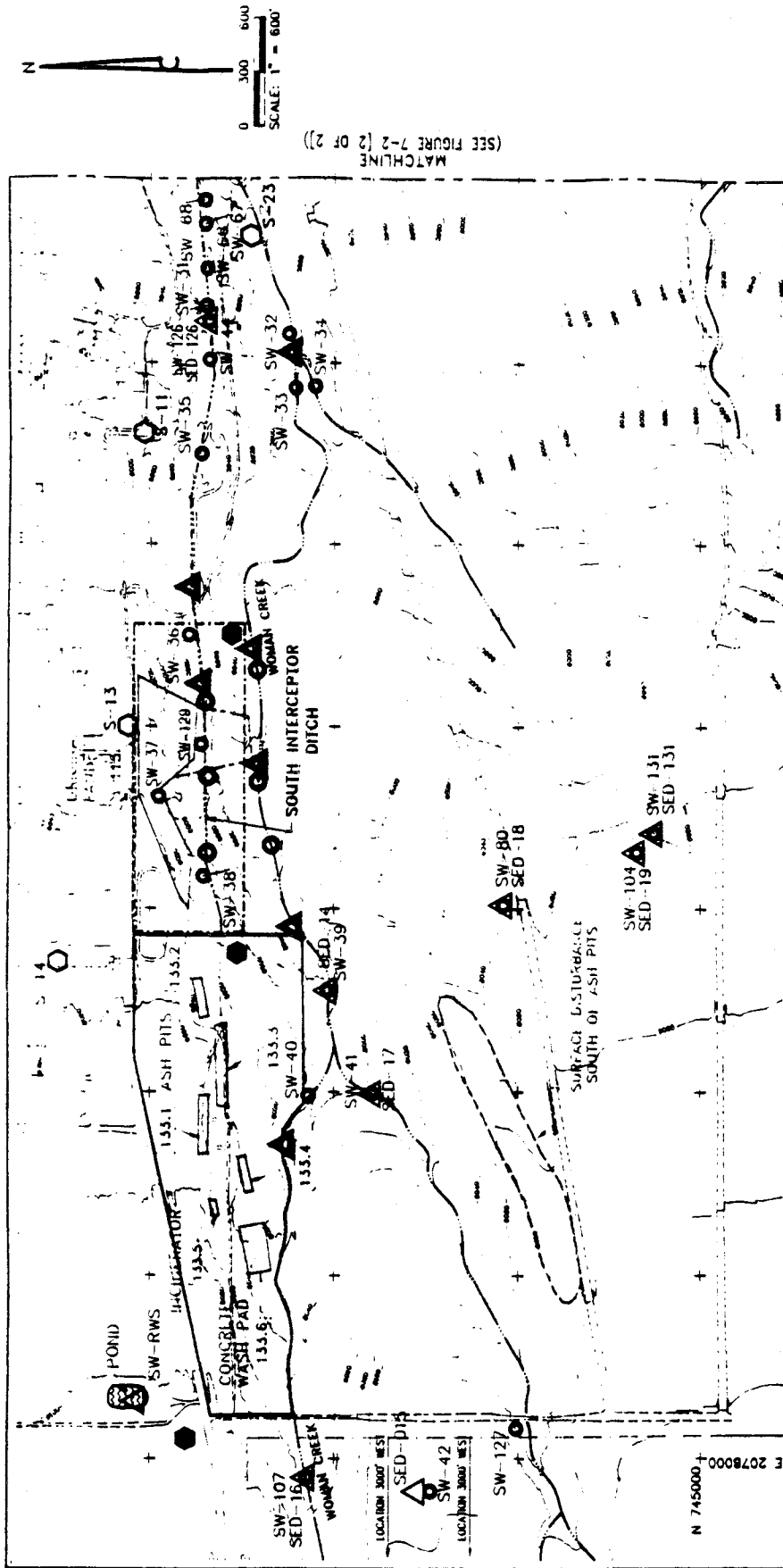
# EXPLANATION

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING ALLUVIAL GROUNDWATER MONITORING WELL
- PRE-1986 MONITORING WELL
- INTERMITTENT STREAM
- DIRT ROAD
- ROCKY FLATS BLDG NO 124
- PRELIMINARY EXTENSION OF THE LANDFILL BASED ON A SITE RECONNAISSANCE
- PROPOSED WELL LOCATION
- PROPOSED SOIL BORING LOCATION
- PROPOSED SOIL GAS SAMPLES
- ALL PROPOSED LOCATIONS ARE APPROXIMATE

U.S. DEPARTMENT OF ENERGY  
Rocky Flats Plant, Golden, Colorado

OPERABLE UNIT 5  
PHASE I RFI/RI WORK PLAN

PROPOSED SAMPLING AND  
WELL LOCATIONS  
IHSS 115  
ORIGINAL LANDFILL



# EXPLANATION

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER LOCATION
- EXISTING SEDIMENT SAMPLING LOCATION
- INTERMITTENT STREAM
- DIRT ROAD
- PRELIMINARY EXTENSION OF THE SURFACE DISTURBANCE BASED ON A RECONNAISSANCE
- EXISTING RADIOACTIVE AMBIENT AIR MONITORING PROGRAM LOCATION
- PROPOSED SEDIMENT SAMPLE LOCATION
- PROPOSED RADIOACTIVE AMBIENT AIR MONITORING PROGRAM LOCATION
- PROPOSED SURFACE WATER LOCATION
- PROPOSED CERAMBIUM SURVEY FOR ASH PIT AREA
- 1980 CERAMBIUM SURVEY BOUNDARY AROUND THE CERAMBIUM

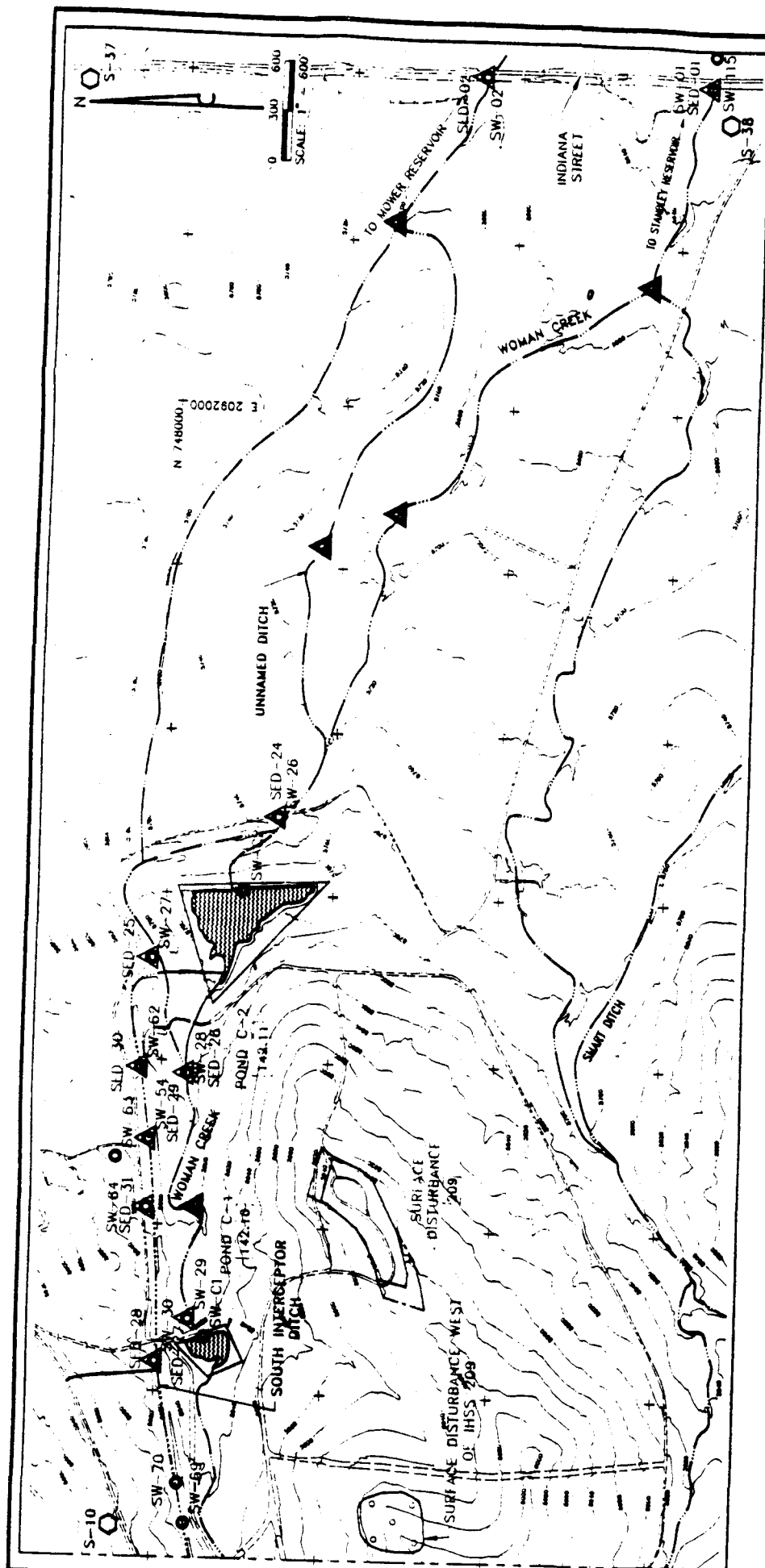
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PHASE 1 RFI/RI WORK PLAN

SEDIMENT & SURFACE WATER  
SAMPLING SITES & AIR MONITORING  
STATIONS ALONG WOMAN CREEK AND  
THE SOUTH INTERCEPTOR DITCH

Figure 4

REV AUGUST 1991  
MARCH 1991



MATCHLINE  
(SEE FIGURE 7-2 (1 OF 2))

**EXPLANATION**

- (115) INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- SW 10 EXISTING SURFACE WATER LOCATION
- SED 10 EXISTING SEDIMENT SAMPLING LOCATION
- INTERMITTENT STREAM
- DIRT ROAD
- PRELIMINARY EXTENSION OF THE SURFACE DISTURBANCE BASED ON A RECONNAISSANCE
- ORIGINAL STREAM CHANNEL NEAR POND C 7
- S-230 EXISTING RADIOACTIVE AMBIENT AIR MONITORING PROGRAM LOCATION
- ▲ PROPOSED SEDIMENT SAMPLE LOCATION

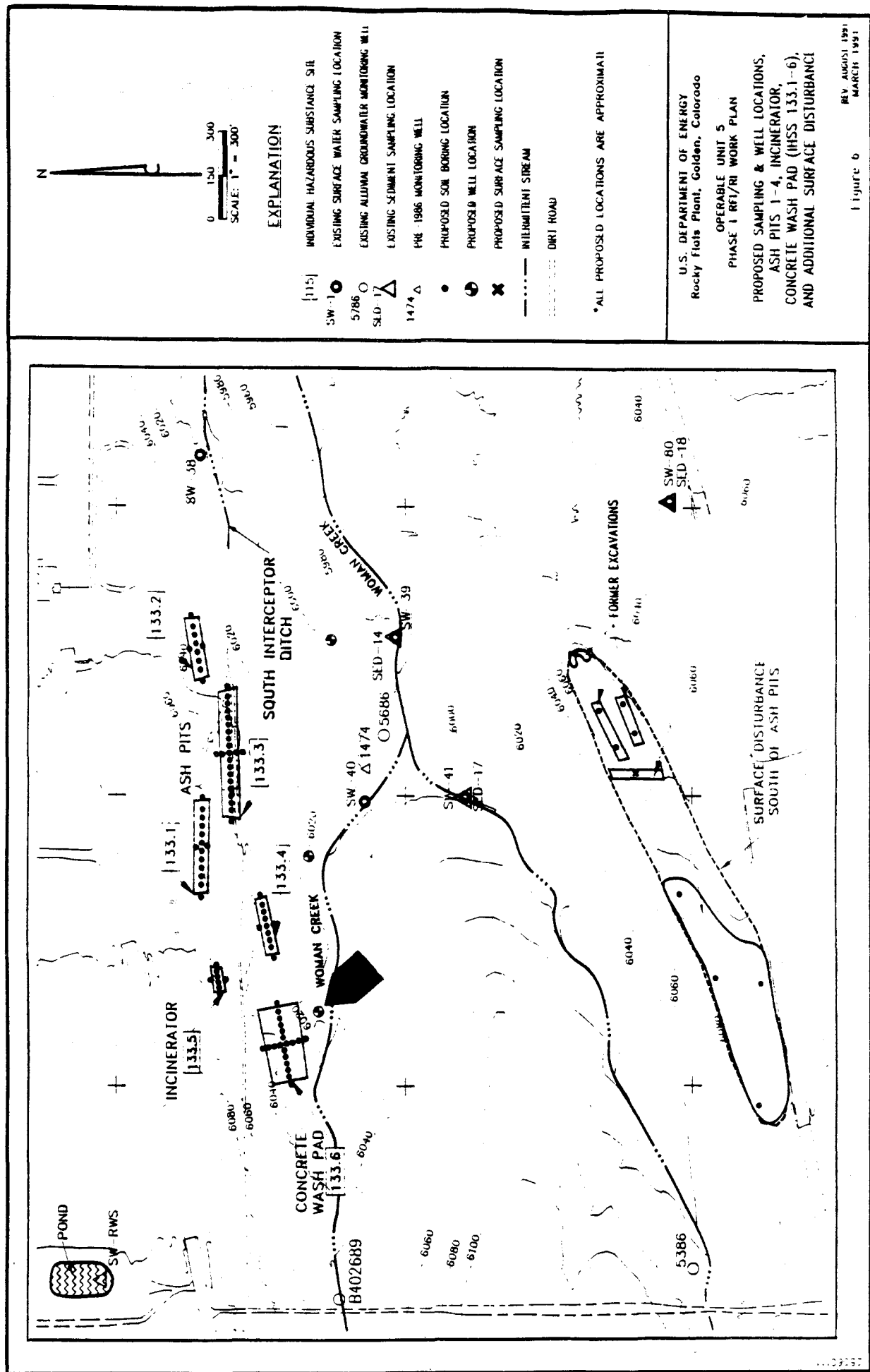
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Rocky Flats Plant, Golden, Colorado

OPERABLE UNIT 5  
PHASE 1 RFI/RI WORK PLAN

**SEDIMENT & SURFACE WATER  
SAMPLING SITES & AIR MONITORING  
STATIONS ALONG WOMAN CREEK AND  
THE SOUTH INTERCEPTOR DITCH**

REV. AUGUST 1991  
MARCH 1991

Figure 5







0 200 400  
SCALE: 1" = 400'

### EXPLANATION

- 1115] INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- SW-1 ● EXISTING SURFACE WATER SAMPLING LOCATION
- 5/86 ○ EXISTING ALLUVIAL GROUNDWATER MONITORING WELL
- SED-17 △ EXISTING SEDIMENT SAMPLING LOCATION
- JUR7 ● EXISTING BEDROCK GROUNDWATER MONITORING WELL
- POND/LAKE DEPRESSION
- INTERMITTENT STREAM
- DIRT ROAD
- PRELIMINARY EXTENSION OF THE SURFACE DISTURBANCE BASED ON A SITE RECONNAISSANCE
- ORIGINAL STREAM CHANNEL NEAR POND C-2
- ✕ PROPOSED SURFACE SAMPLING LOCATION
- PROPOSED WELL LOCATION\*
- △ PROPOSED SEDIMENT SAMPLING LOCATION\*\*

\* OTHER LOCATIONS IN EACH POND WILL BE SELECTED AT RANDOM  
\*\* ALL PROPOSED LOCATIONS ARE APPROXIMATE

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PROPOSED SAMPLING & WELL LOCATIONS,  
IHSS 142.10-11, PONDS C-1 & C-2,  
IHSS 209 SURFACE DISTURBANCE, & IHSS  
SURFACE DISTURBANCE WEST OF  
IHSS 209

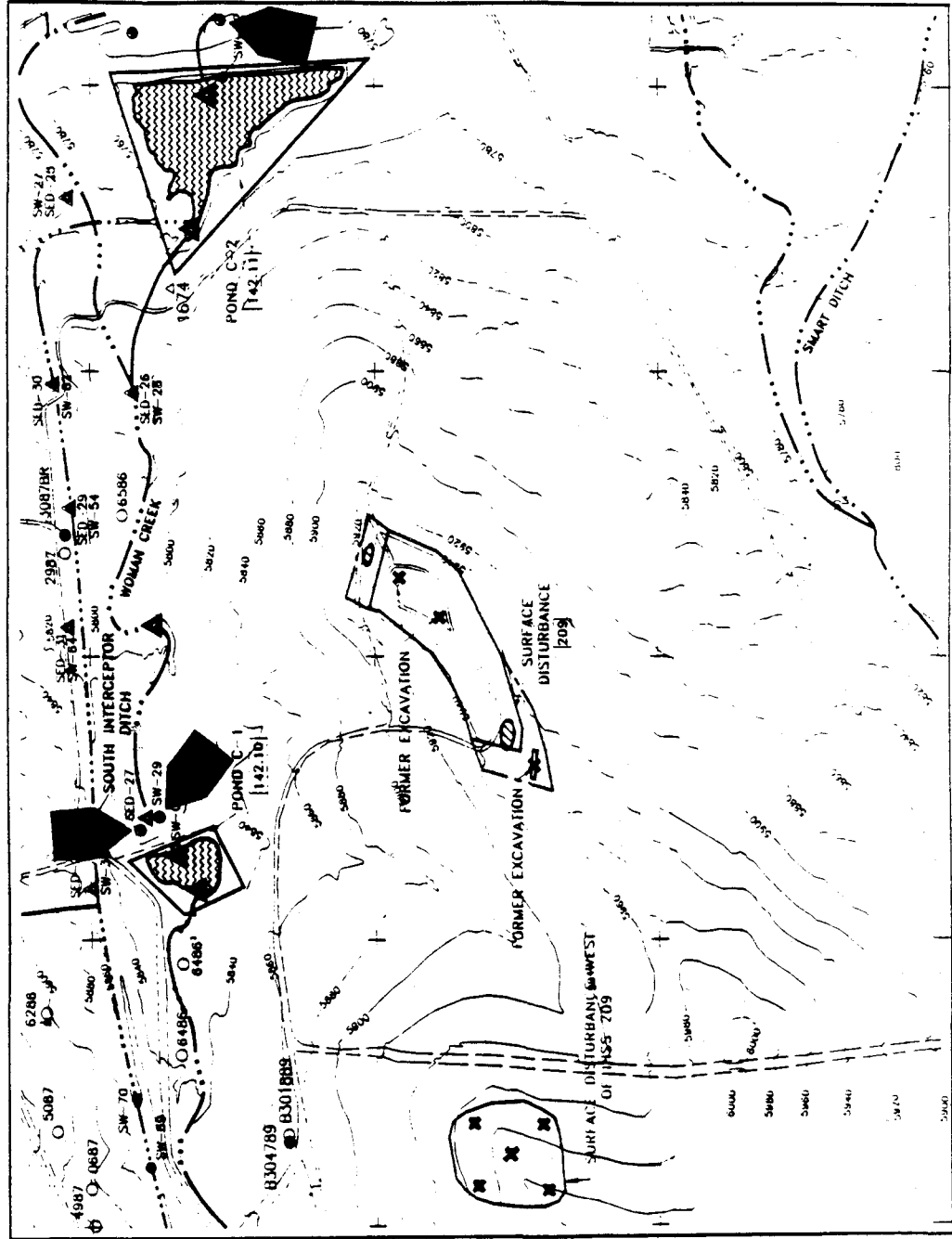
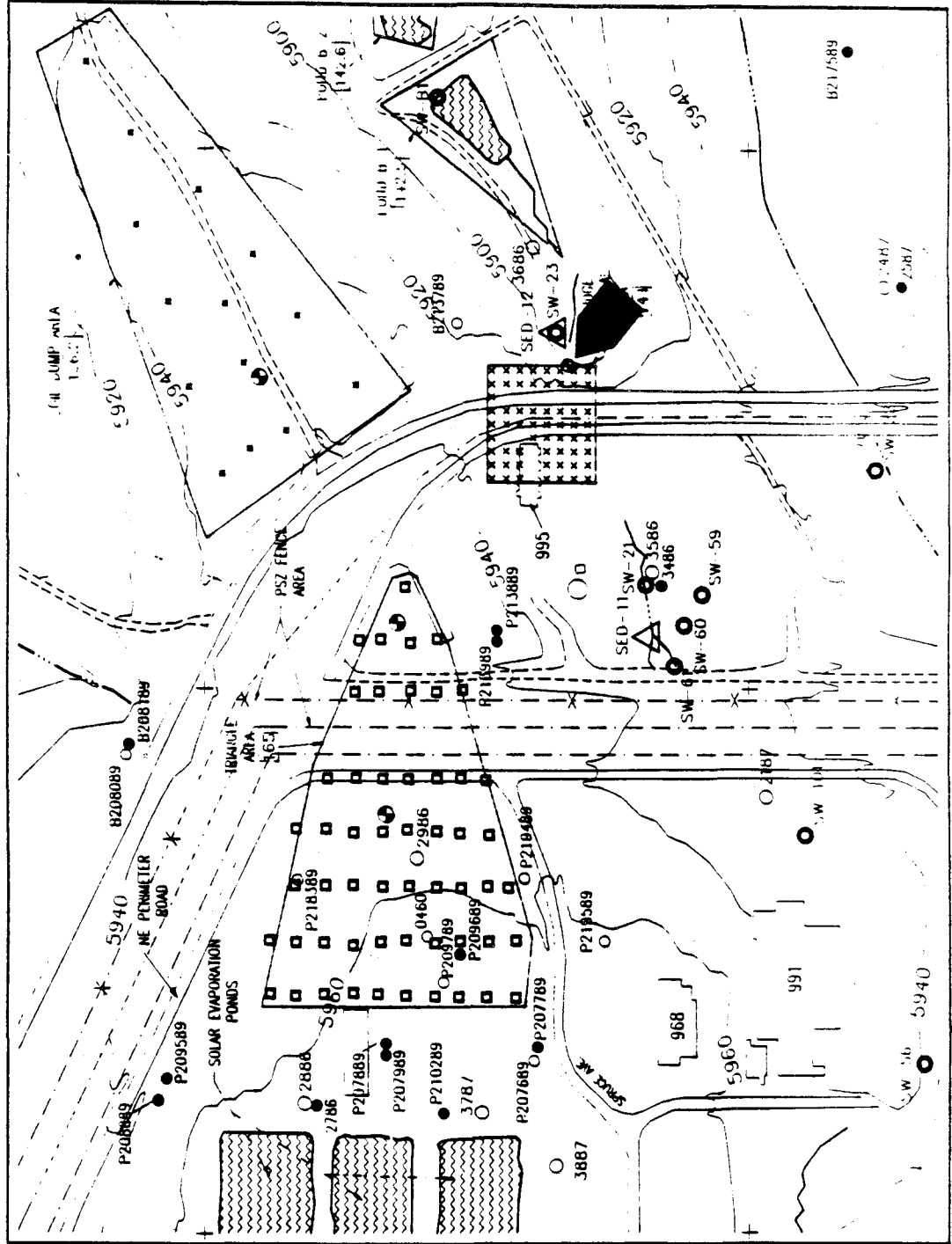


figure 11



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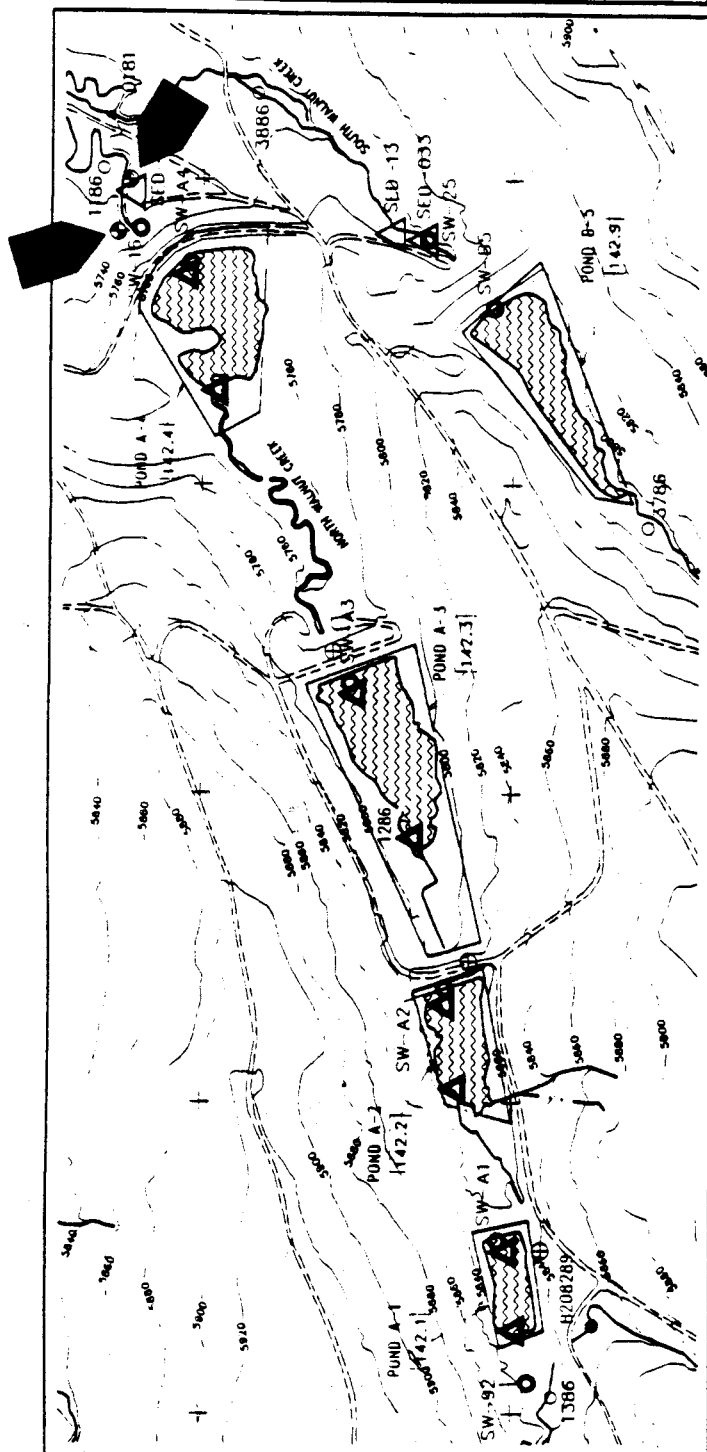
**EXPLANATION**

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
  - EXISTING SURFACE WATER SAMPLING LOCATION
  - EXISTING ALLUVAL GROUNDWATER MONITORING WELL
  - EXISTING SEDIMENT SAMPLING LOCATION
  - EXISTING BEDROCK GROUNDWATER MONITORING WELL
  - EXISTING PRE 1986 WELL
  - INTERMITTENT STREAM
  - DIRT ROAD
  - PROPOSED WELL LOCATION<sup>1</sup>
  - PROPOSED SEDIMENT SAMPLE LOCATION<sup>1</sup>
  - PROPOSED BEDROCK WELL LOCATIONS FOR SITE-WIDE GEOLOGICAL CHARACTERIZATION PROGRAM<sup>1</sup> These wells are shown in figure 11.
- <sup>1</sup>ALL PROPOSED LOCATIONS ARE APPROXIMATE

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PHASE 1 RFI/RI WORK PLAN

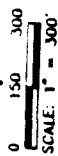
PROPOSED SAMPLING & WELL LOCATIONS  
IHSSs 142.1-4  
A-SERIES DETENTION PONDS  
ALONG NORTH WALNUT CREEK

Figure 9 APRIL 1991



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**EXPLANATION**

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING ALLUVIAL GROUNDWATER MONITORING WELL
- EXISTING SEDIMENT SAMPLING LOCATION
- INTERMITTENT STREAM
- DIRT ROAD
- ROCKY FLATS BLDG NO
- PROPOSED WELL LOCATION<sup>1</sup>
- PROPOSED BORING AND SURFACE SAMPLE<sup>1</sup> LOCATION
- PROPOSED SEDIMENT SAMPLE LOCATION<sup>1,2</sup>
- PROPOSED BEDROCK WELL LOCATIONS FOR SITE-WIDE GEOLOGICAL CHARACTERIZATION PROGRAM<sup>1</sup>
- <sup>1</sup> ALL PROPOSED LOCATIONS ARE APPROXIMATE
- <sup>2</sup> THREE OTHER LOCATIONS IN EACH POND WILL BE SELECTED AT RANDOM

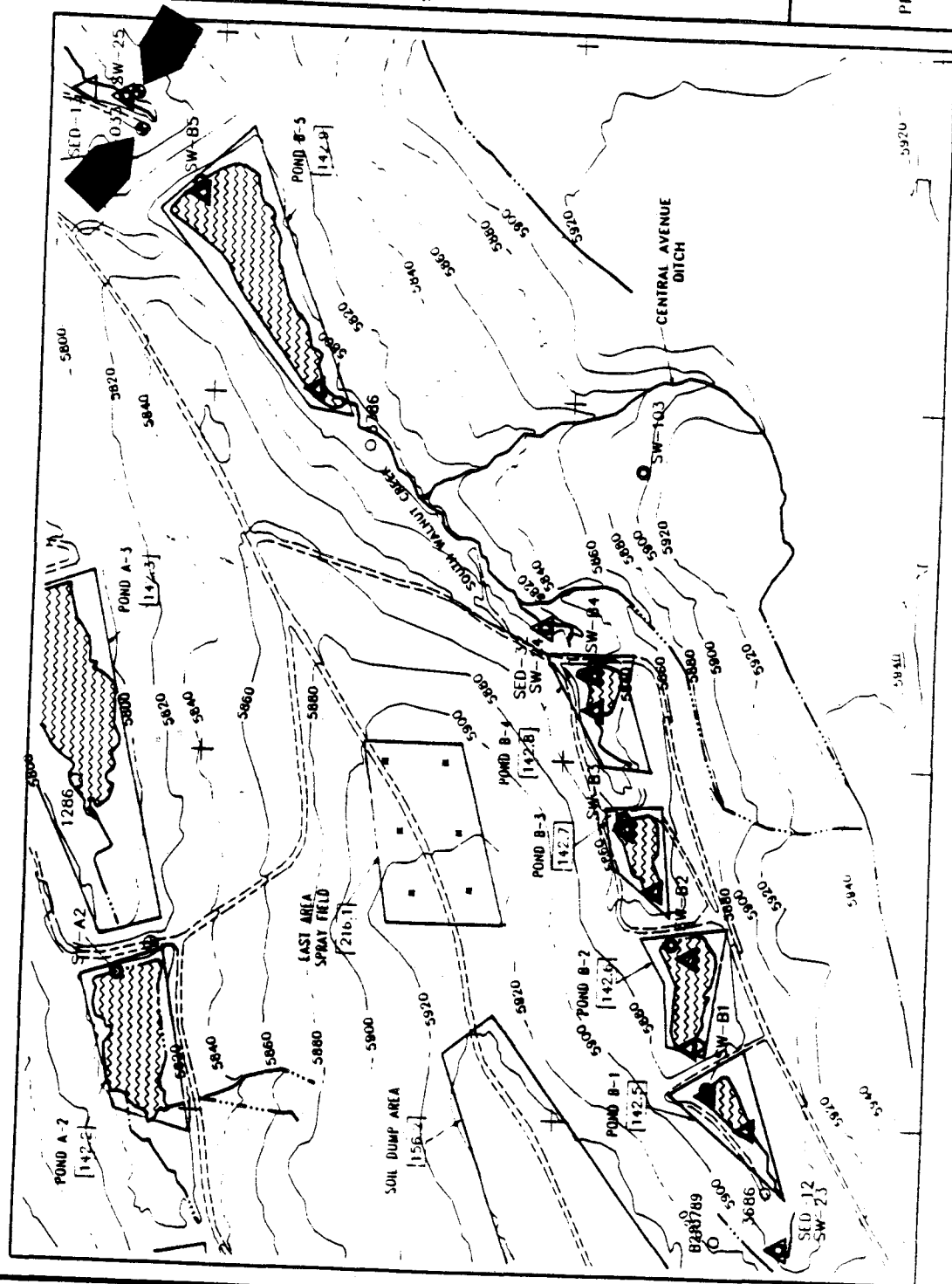
U.S. DEPARTMENT OF ENERGY  
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OPERABLE UNIT 6  
PHASE I RFI/RI WORK PLAN

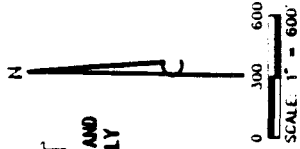
PROPOSED SAMPLING & WELL LOCATIONS  
IHSS 142.5-9,  
B-SERIES DETENTION PONDS  
ALONG SOUTH WALNUT CREEK  
IHSS 216.1 EAST AREA SPRAY FIELD

FIGURE 10

APRIL 1991



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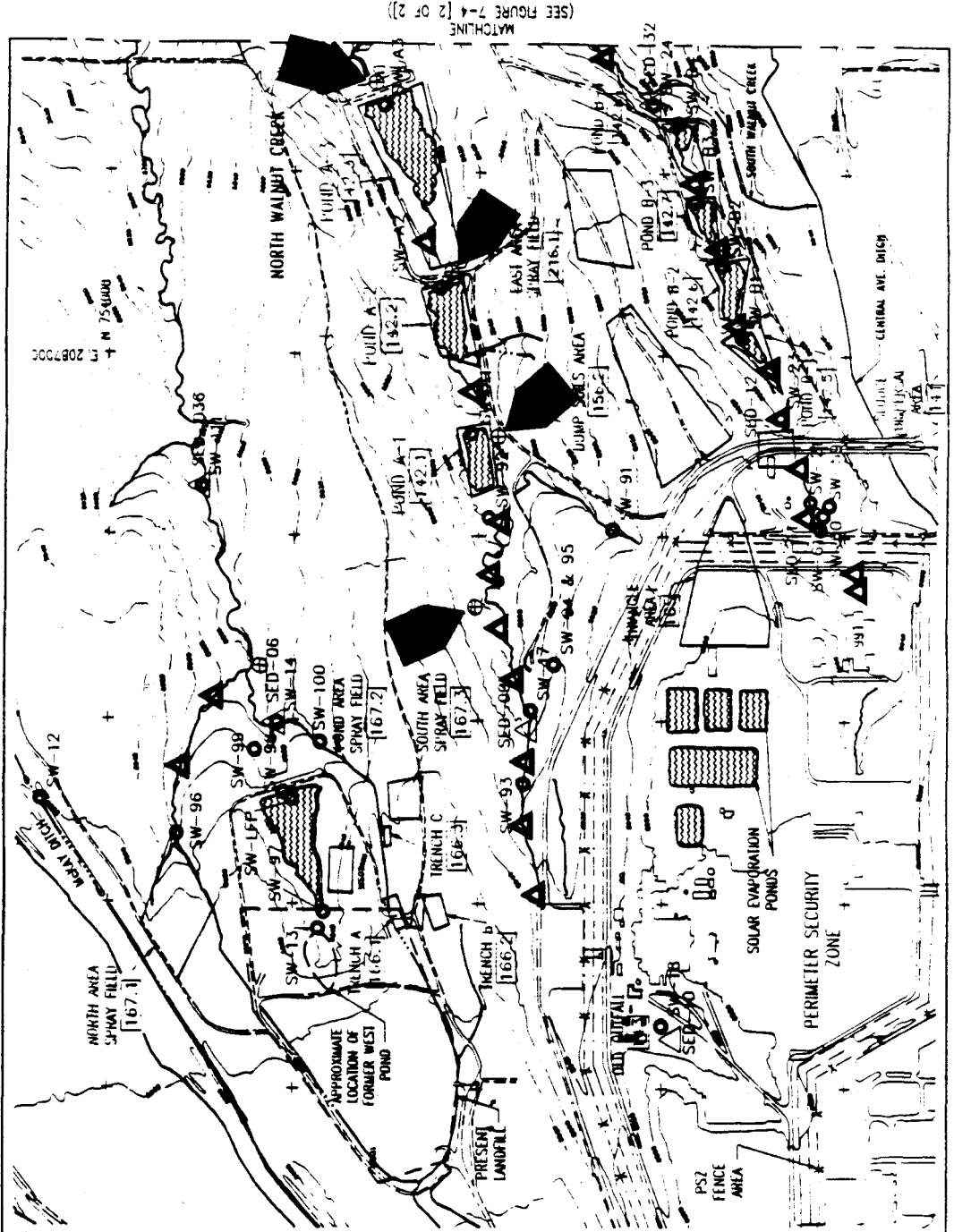


**EXPLANATION**

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE (HSS) IN OPERABLE UNIT 6
  - HSS REFERENCE NUMBER
  - EXISTING SURFACE WATER SAMPLING LOCATION
  - EXISTING SEDIMENT SAMPLE LOCATION
  - PERIMETER SECURITY ZONE
  - DIRT ROAD
  - PROPOSED LOCATIONS FOR SEDIMENT SAMPLES<sup>1</sup>
  - PROPOSED BEDROCK WELL LOCATIONS FOR SITE-WIDE GEOLOGICAL CHARACTERIZATION PROGRAM<sup>1</sup>
- <sup>1</sup> ALL PROPOSED LOCATIONS ARE APPROXIMATE

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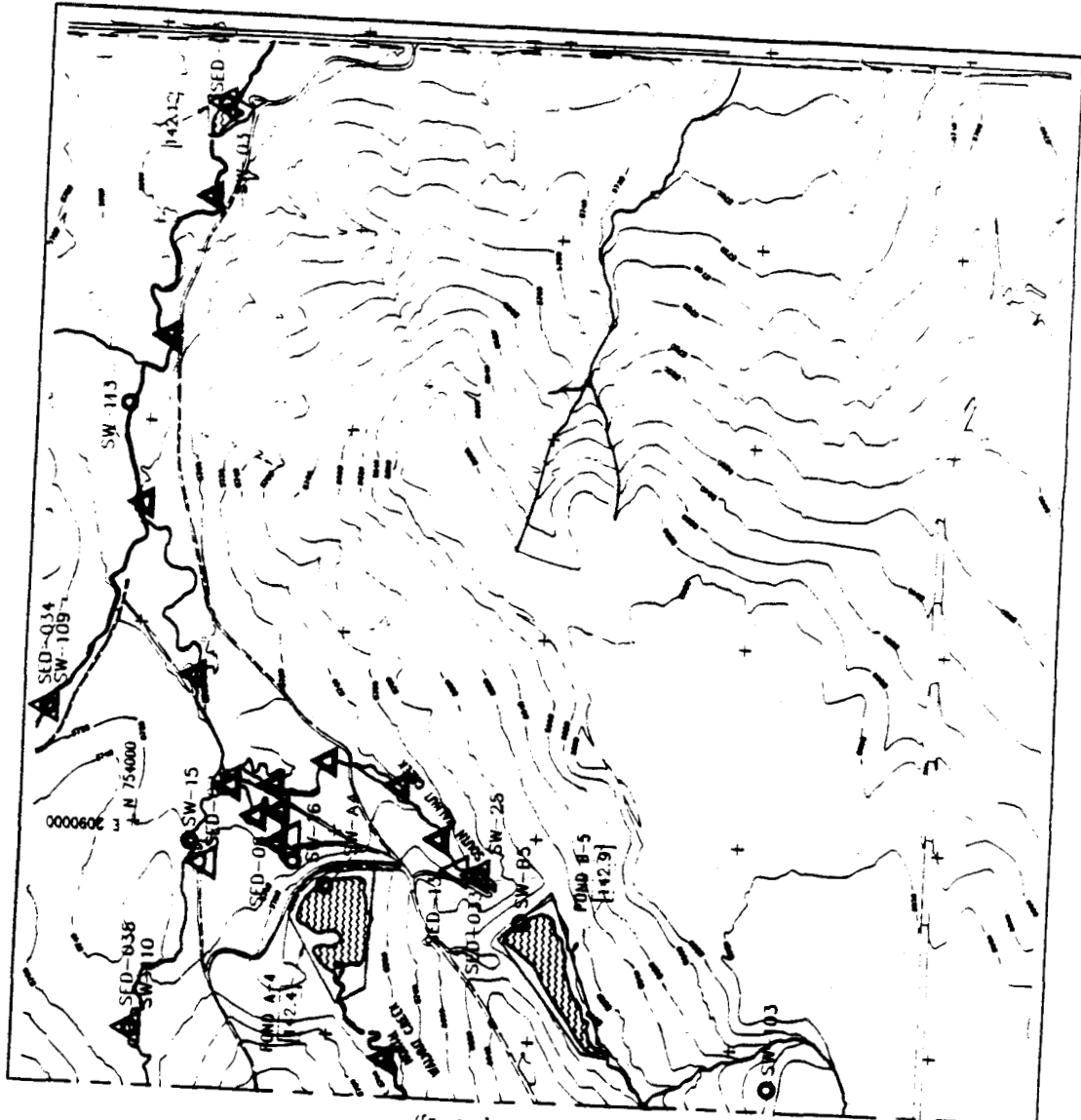
OPERABLE UNIT 6  
PHASE 1 RFI/RI WORK PLAN  
SEDIMENT SAMPLING SITES AND  
SITE-WIDE PROGRAM BEDROCK WELLS  
ON NORTH AND SOUTH  
WALNUT CREEKS



(SEE FIGURE 7-4 [2 OF 2])

Figure 11

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MATCHLINE  
(SEE FIGURE 7-4 [2 OF 2])

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**EXPLANATION**

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE (IHSS) IN OPERABLE UNIT 6
- IHSS REFERENCE NUMBER
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING SEDIMENT SAMPLE LOCATION
- DIRT ROAD
- PROPOSED LOCATIONS FOR SEDIMENT SAMPLING

ALL PROPOSED LOCATIONS ARE APPROXIMATE

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OPERABLE UNIT 6  
PHASE I RI/RI WORK PLAN

SEDIMENT SAMPLING SITES AND  
SITE-WIDE PROGRAM BEDROCK WELLS  
ON NORTH AND SOUTH  
WALNUT CREEKS

Figure 12

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**EXPLANATION**

- (115) INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- SW-1 ● EXISTING SURFACE WATER SAMPLING LOCATION
- 5786 ○ EXISTING ALLUVIAL GROUNDWATER MONITORING WELL
- SLD-17 △ EXISTING SEDIMENT SAMPLING LOCATION
- 3087 ● EXISTING BEDROCK GROUNDWATER MONITORING WELL
- INTERMITTENT STREAM
- DIRT ROAD
- PROPOSED SON BORING LOCATION<sup>1</sup>
- PROPOSED WELL LOCATION<sup>1</sup>
- PROPOSED BORING AND SURFACE SAMPLE LOCATION<sup>1</sup>
- ||||| PROPOSED ELECTROMAGNETIC SURVEY LINE LOCATION<sup>1</sup>

<sup>1</sup>ALL PROPOSED LOCATIONS ARE APPROXIMATE

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OPERABLE UNIT 6  
PHASE 1 RFI/RI WORK PLAN

PROPOSED SAMPLING & WELL LOCATIONS  
IHSSs 166.1-3, TRENCHES A, B, & C  
IHSSs 167.1-3 NORTH AREA,  
POND AREA AND SOUTH AREA

Figure 13

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